

# Executive Summary Report

## SMOG CHECK Statewide

September 2011

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	889,402	105,967	11.91%
Total	1,020,508	135,791	13.31%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	774,803	87.12%	114,599	12.88%
Total	872,288	85.48%	148,220	14.52%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	491,714	86.49%	76,790	13.51%
Total	559,815	85.32%	96,356	14.68%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	12,105	1.36%
All Emissions	53,275	5.99%
All Visual	12,532	1.41%
All Functional	65,088	7.32%
OBDII	43,916	4.94%
Overall	105,967	11.91%

### 5. Initial Tests at Test-Only Stations

	Initial Tests	Certificates Issued
Volunteers	325,576	295,967
Directed Vehicles	242,928	195,747
Total	568,504	491,714

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	52,740	46,072
Directed Vehicles	20,304	15,131
Total	73,044	61,203

### 7. Number of Stations by Type/Privilege and Program Area

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	3,536	282	539	30	0	4,387
Test Only	2,591	47	27	1	0	2,666
Basic Area Dealer	0	1	104	0	0	105
Gold Shield	482	28	48	77	0	635
Business Fleet	3	0	0	0	0	3
Permanent Fleet Registered	30	1	4	0	0	35
Referee	36	0	6	1	0	43
Government Fleet	247	9	37	2	0	295
Unknown Type	1	0	0	0	0	1
Total	6,926	368	765	111	0	8,170

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	709,266	87,307	12.31%	9,749	1.37%
Partially Enhanced	44,586	6,043	13.55%	707	1.59%
Basic	82,217	7,729	9.40%	963	1.17%
Change of Ownership	5,645	722	12.79%	163	2.89%
No Program	4	0	0.00%	0	0.00%
Unknown Program	47,684	4,166	8.74%	523	1.10%
Total Program Area	889,402	105,967	11.91%	12,105	1.36%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	568,504	75,436	13.27%	8,845	1.56%
Regular	240,165	18,752	7.81%	1,835	0.76%
Basic Area Dealer	5,245	189	3.60%	6	0.11%
Gold Shield in Enhanced Area	55,922	9,042	16.17%	1,026	1.83%
Gold Shield in Basic Area	11,081	1,416	12.78%	205	1.85%
Gold Shield in COO Area	6,041	767	12.70%	134	2.22%
Business Fleet	6	0	0.00%	0	0.00%
Permanent Fleet Registered	61	6	9.84%	0	0.00%
Referee	498	222	44.58%	36	7.23%
Government Fleet	1,879	137	7.29%	18	0.96%
Total	889,402	105,967	11.91%	12,105	1.36%

**10. Initial Tests by Vehicle Model Year**

Model Year	Initial Tests	Failed Overall	Percent (%) Failed Overall	Percent (%) Failed Emissions	Percent (%) Failed Gross Polluters	Percent (%) Failed Functional	Percent (%) Failed Visual	Percent (%) Failed OBDII
MY-1975	1	1	100.00%	0.00%	0.00%	100.00%	100.00%	0.00%
MY-1976	867	238	27.45%	18.80%	8.54%	14.07%	6.69%	0.00%
MY-1977	1,287	350	27.20%	18.80%	7.61%	14.14%	6.60%	0.00%
MY-1978	1,386	387	27.92%	20.13%	9.45%	14.21%	7.29%	0.00%
MY-1979	1,686	532	31.55%	22.42%	8.72%	16.96%	9.25%	0.00%
MY-1980	963	238	24.71%	19.21%	10.38%	12.25%	6.85%	0.00%
MY-1981	1,072	329	30.69%	24.16%	9.51%	15.49%	8.86%	0.00%
MY-1982	1,306	438	33.54%	26.88%	9.57%	15.31%	7.66%	0.00%
MY-1983	1,604	484	30.17%	24.38%	8.73%	13.53%	7.42%	0.00%
MY-1984	2,932	945	32.23%	26.16%	10.20%	14.36%	6.75%	0.00%
MY-1985	4,094	1,272	31.07%	24.94%	8.04%	14.00%	6.64%	0.00%
MY-1986	6,437	1,891	29.38%	23.40%	8.34%	13.56%	6.00%	0.00%
MY-1987	6,755	2,137	31.64%	25.36%	8.79%	14.08%	5.80%	0.00%
MY-1988	8,274	2,375	28.70%	22.98%	6.94%	12.58%	4.27%	0.00%
MY-1989	11,764	3,194	27.15%	21.06%	5.81%	12.15%	4.24%	0.00%
MY-1990	13,890	3,690	26.57%	21.33%	5.93%	11.40%	3.85%	0.00%
MY-1991	17,929	4,528	25.26%	20.19%	5.18%	10.50%	3.22%	0.00%
MY-1992	17,485	4,394	25.13%	20.05%	5.02%	10.03%	3.00%	0.00%
MY-1993	22,809	5,988	26.25%	21.36%	4.32%	9.84%	3.20%	0.00%
MY-1994	24,918	6,015	24.14%	18.99%	3.50%	9.13%	3.06%	0.00%
MY-1995	39,159	8,183	20.90%	15.98%	2.66%	7.79%	2.45%	0.00%
MY-1996	27,142	5,130	18.90%	9.32%	1.49%	11.91%	1.90%	10.82%
MY-1997	50,036	7,616	15.22%	6.91%	1.05%	9.68%	1.40%	8.96%
MY-1998	38,781	5,461	14.08%	5.75%	0.88%	9.63%	1.37%	9.03%
MY-1999	66,048	6,550	9.92%	3.13%	0.51%	7.35%	1.08%	6.95%
MY-2000	43,527	4,815	11.06%	3.08%	0.65%	8.52%	1.18%	8.31%
MY-2001	105,047	10,314	9.82%	1.33%	0.26%	8.71%	0.73%	8.57%
MY-2002	36,505	3,563	9.76%	1.80%	0.36%	8.45%	0.87%	8.38%
MY-2003	123,527	7,248	5.87%	0.71%	0.14%	5.17%	0.57%	5.09%
MY-2004	30,268	1,711	5.65%	0.97%	0.13%	4.77%	0.67%	4.72%
MY-2005	123,833	4,678	3.78%	0.40%	0.08%	3.27%	0.36%	3.23%
MY-2006	18,684	588	3.15%	0.86%	0.09%	2.55%	0.44%	2.48%
MY-2007	17,039	376	2.21%	0.56%	0.04%	1.75%	0.22%	1.71%
MY-2008	7,927	116	1.46%	0.54%	0.05%	1.22%	0.13%	1.16%
MY-2009	4,114	59	1.43%	0.68%	0.05%	1.22%	0.10%	1.19%
MY-2010	6,591	85	1.29%	0.18%	0.05%	1.08%	0.08%	1.03%
MY-2011	3,501	45	1.29%	0.31%	0.00%	1.11%	0.11%	1.03%
MY-2012	214	3	1.40%	0.00%	0.00%	1.40%	0.00%	1.40%
All Model Years	889,402	105,967	11.91%	5.99%	1.36%	7.32%	1.41%	4.94%

**11. Referee Activity**

	Certificates Issued
Certificate of Compliance	459
Certificate of Non Compliance	0
Parts Cost	151
Hardship Extensions	1
Exempt Vehicle	40
Exempted by Directive	10
Parts Exemption	13
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	1
	<b>675</b>

**12. Active Stations**

	Station Count
Licensed Stations that did not Conduct a Test	1,039
Stations Locked-Out at Least Once	373
Stations Conducted at Least One Test	7,131

**13. Active Technicians**

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	10,095	5,847
EA	Gas Endorsement	9	0
EB	Both Endorsement	45	0
EB	Gas Endorsement	464	0
GU	Both Endorsement	20	0

**14. Inspection Costs**

	ASM Initial Test Count	Avg ASM Inspection Cost	TSI Initial Test Count	Avg TSI Inspection Cost	Total Initial Tests	Overall Average Inspection Cost
Test Only	479,739	47.34	73,616	48.42	553,355	47.48
Test and Repair	147,239	47.08	83,742	46.67	230,981	46.93
Test and Repair Dealer	42	62.40	4,816	51.31	4,858	51.40
Referee	209	30.00	78	30.00	287	30.00
Gold Shield in Enhanced Area	46,428	46.21	8,216	47.88	54,644	46.46
Gold Shield in Basic Area	515	62.27	10,195	39.90	10,710	40.97
Gold Shield in COO Area	1,342	55.41	4,467	53.53	5,809	53.97

**15. Repair Costs**

Repair Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
Regular Repairs	\$1-50	4,215	23.22	<b>16,682</b>	<b>291.72</b>
	\$51-150	3,203	100.34		
	\$151-250	2,534	201.25		
	\$251-450	3,346	341.50		
	Over \$450	3,384	825.81		
CAP Repairs	\$1-50	68	23.12	<b>2,429</b>	<b>464.91</b>
	\$51-150	113	104.19		
	\$151-250	179	207.84		
	\$251-450	657	362.64		
	Over \$450	1,412	595.22		
Total Repairs	\$1-50	3,403	23.59	<b>17,327</b>	<b>346.03</b>
	\$51-150	3,053	100.77		
	\$151-250	2,506	201.61		
	\$251-450	3,710	344.96		
	Over \$450	4,655	821.20		

**16. CAP Repair Costs**

	Total Vehicles	Average Repair Cost
CAP Repairs	2,311	464.91

**17. Drill-Through**

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Gold Shield in Enhanced Area	11	5	0	0	3	2	3	0
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	52	10	0	0	5	2	8	0

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Test Only	65	13	3	0	3	9	6	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Test and Repair	6	3	1	0	1	1	2	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	363	80	12	1	24	40	43	14
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	1,040	193	22	7	82	95	122	18
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	33,455	7,203	797	412	2,990	3,650	4,496	959
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	55	4	2	32	18	37	1
Acceleration Simulation Mode (ASM)	Enhanced	Referee	121	136	25	45	33	77	91	70
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	103,798	8,116	656	485	4,498	3,029	5,644	897
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	389,159	65,234	7,609	3,393	24,062	36,449	37,488	7,264
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	57	15	1	0	6	8	7	1
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in COO Area	44	5	0	0	2	3	3	0
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	2,941	697	73	41	289	354	436	79
Acceleration Simulation Mode (ASM)	Partial	Referee	10	9	2	6	0	2	5	7
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	17,683	2,903	327	132	988	1,611	1,621	299
Acceleration Simulation Mode (ASM)	Partial	Test Only	11,510	1,975	257	118	681	1,096	1,119	250
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in COO Area	41	6	0	0	4	1	5	1
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,470	252	29	27	105	128	158	54
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	61	10	0	11	45	20	0
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	23	14	4	5	2	7	8	10
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	11,960	1,000	110	79	517	438	678	145

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	14,892	1,866	255	120	827	954	1,127	243
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	7,654	1,161	173	91	468	366	792	241
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	171	26	4	0	11	11	19	2
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	1,336	232	42	9	115	74	179	32
Two Speed Idle (TSI)	Basic	Government Fleet	0	5	1	0	3	2	3	0
Two Speed Idle (TSI)	Basic	Referee	21	32	1	14	10	5	20	18
Two Speed Idle (TSI)	Basic	Test and Repair	47,086	4,633	534	255	2,169	1,345	3,426	596
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	3,504	136	5	4	74	24	105	16
Two Speed Idle (TSI)	Basic	Test Only	10,417	1,313	200	92	553	493	884	189
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	79	10	2	0	5	4	8	1
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,835	330	76	26	118	150	210	42
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	102	20	8	2	5	10	12	6
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,653	178	41	17	61	69	127	37
Two Speed Idle (TSI)	Change of Ownership	Test Only	978	167	35	11	56	71	119	24
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	610	61	6	8	32	16	45	9
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	673	61	8	4	35	17	44	8
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	5,159	495	68	27	291	138	383	58
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	12	2	0	8	4	8	0
Two Speed Idle (TSI)	Enhanced	Referee	24	11	2	5	4	3	8	5
Two Speed Idle (TSI)	Enhanced	Test and Repair	20,000	1,044	109	44	699	216	831	101
Two Speed Idle (TSI)	Enhanced	Test Only	52,221	4,068	429	184	2,713	884	3,181	372
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	66	10	3	0	4	4	6	2
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	349	49	7	1	30	12	38	5
Two Speed Idle (TSI)	Partial	Referee	1	1	0	1	0	1	0	1
Two Speed Idle (TSI)	Partial	Test and Repair	2,324	169	17	8	106	37	132	18
Two Speed Idle (TSI)	Partial	Test Only	1,344	124	20	7	73	38	87	17
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	440	54	8	5	26	15	43	10
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	1,141	130	24	12	52	52	85	18
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	400	25	2	0	19	5	21	2

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	2	1	0	1	1	2	0
Two Speed Idle (TSI)	Unknown Program	Referee	14	6	2	3	2	2	4	4
Two Speed Idle (TSI)	Unknown Program	Test and Repair	5,250	400	40	35	219	95	315	62
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	534	13	1	1	10	2	11	1
Two Speed Idle (TSI)	Unknown Program	Test Only	4,122	284	37	24	172	78	202	37
UnKnown TestType	Basic	Gold Shield in Basic Area	270	21	0	1	15	21	15	6
UnKnown TestType	Basic	Gold Shield in COO Area	9	3	0	1	1	3	1	2
UnKnown TestType	Basic	Gold Shield in Enhanced Area	83	4	0	0	3	4	3	1
UnKnown TestType	Basic	Government Fleet	0	0	0	0	0	2	0	0
UnKnown TestType	Basic	Referee	4	1	0	1	0	1	0	1
UnKnown TestType	Basic	Test and Repair	2,006	102	0	8	77	111	77	30
UnKnown TestType	Basic	Test and Repair Dealer	306	13	0	3	6	17	6	8
UnKnown TestType	Basic	Test Only	334	19	0	3	12	19	12	9
UnKnown TestType	Change of Ownership	Gold Shield in COO Area	80	3	0	2	2	3	2	2
UnKnown TestType	Change of Ownership	Gold Shield in Enhanced Area	7	1	0	0	1	1	1	0
UnKnown TestType	Change of Ownership	Test and Repair	52	3	0	0	3	3	3	0
UnKnown TestType	Change of Ownership	Test and Repair Dealer	6	1	0	1	0	1	0	1
UnKnown TestType	Change of Ownership	Test Only	24	1	0	1	1	1	1	1
UnKnown TestType	Enhanced	Gold Shield in Basic Area	30	2	0	0	2	2	2	0
UnKnown TestType	Enhanced	Gold Shield in COO Area	58	3	0	1	1	3	1	2
UnKnown TestType	Enhanced	Gold Shield in Enhanced Area	861	49	0	5	32	59	32	17
UnKnown TestType	Enhanced	Government Fleet	0	2	0	0	2	24	2	0
UnKnown TestType	Enhanced	Referee	16	3	0	2	1	4	1	2
UnKnown TestType	Enhanced	Test and Repair	3,325	123	0	18	96	157	96	31
UnKnown TestType	Enhanced	Test Only	5,743	330	0	64	239	341	239	113
UnKnown TestType	Partial	Gold Shield in Enhanced Area	144	8	0	2	4	8	4	4
UnKnown TestType	Partial	Government Fleet	0	0	0	0	0	1	0	0
UnKnown TestType	Partial	Referee	0	1	0	0	0	1	0	0
UnKnown TestType	Partial	Test and Repair	935	48	0	8	35	60	35	15

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
UnKnown TestType	Partial	Test Only	433	21	0	3	17	21	17	4
UnKnown TestType	Unknown Program	Gold Shield in Basic Area	22	2	0	1	1	10	1	2
UnKnown TestType	Unknown Program	Gold Shield in COO Area	67	3	0	2	0	4	0	3
UnKnown TestType	Unknown Program	Gold Shield in Enhanced Area	67	2	0	1	0	4	0	2
UnKnown TestType	Unknown Program	Government Fleet	0	0	0	0	0	31	0	0
UnKnown TestType	Unknown Program	Referee	27	5	0	5	0	5	0	5
UnKnown TestType	Unknown Program	Test and Repair	494	20	0	5	11	55	11	9
UnKnown TestType	Unknown Program	Test Only	459	20	0	5	12	35	12	9